

Abstract of the Disclosure

The invention relates to a safety-related automation system, and to a method for operating such a system. In order to provide a safety-related automation bus system which needs only a low level of hardware redundancy and can be flexibly matched to the respective requirements, the automation system comprises at least one safety analyzer, which is connected by means of an interface to the bus and monitors the data flow via the bus, the analyzer being set up for carrying out safety-related functions. The automation system is distinguished in that the standard control device drives at least one safety-related output, and the safety analyzer is designed for checking and/or for processing safety-related data in the bus datastream.